

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/005,3180
Source: 1647
Date Processed by STIC: 2/26/2002

RECEIVED
MAR 14 2002

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

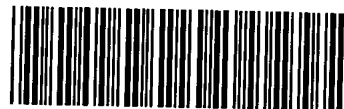
1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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2011 South Clark Place, Arlington, VA 22202
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Revised 01/29/2002

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1647

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002

TIME: 13:55:00

Input Set : A:\EpicYTE(0204).txt

Output Set: N:\CRF3\02262002\I005318D.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: EPICYTE PHARMACEUTICAL, INC.
 4 HIATT, ANDREW C.
 5 HEIN, MICH B.
 6 FITCHEN, JOHN H.
 8 <120> TITLE OF INVENTION: NOVEL EPITHELIAL TISSUE IMAGING AGENT
 10 <130> FILE REFERENCE: 068904-0204
 12 <140> CURRENT APPLICATION NUMBER: US/09/005,318D
 13 <141> CURRENT FILING DATE: 1998-01-09
 15 <150> PRIOR APPLICATION NUMBER: 09/005,167
 16 <151> PRIOR FILING DATE: 1998-01-09
 18 <150> PRIOR APPLICATION NUMBER: 08/782,480
 19 <151> PRIOR FILING DATE: 1997-01-10
 21 <160> NUMBER OF SEQ ID NOS: 93
 23 <170> SOFTWARE: PatentIn 3.0

Please consult
Sequence Rules
for valid format.

ERRORED SEQUENCES

26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 137
 E--> 28 <212> TYPE: Protein PRT is the valid response (global error)
 29 <213> ORGANISM: Human
 31 <220> FEATURE:
 32 <221> NAME/KEY: misc-feature
 33 <222> LOCATION: Synthetic polypeptide J chain
 35 <400> SEQUENCE: 1
 36 Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys Cys Lys Cys Ala
 37 1 5 10 15
 39 Arg Ile Thr Ser Arg Ile Ile Arg Ser Ser Glu Asp Pro Asn Glu Asp
 40 20 25 30
 42 Ile Val Glu Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Asn Arg Glu
 43 35 40 45
 45 Asn Ile Ser Asp Pro Thr Ser Pro Leu Arg Thr Arg Pro Val Tyr His
 46 50 55 60
 48 Leu Ser Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu Asp
 49 65 70 75 80
 51 Asn Gln Ile Val Thr Ala Thr Gln Ser Asn Ile Cys Asp Glu Asp Ser
 52 85 90 95
 55 Ala Thr Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Ala
 56 100 105 110
 58 Val Val Pro Leu Val Tyr Gly Gly Glu Thr Lys Met Val Glu Thr Ala
 59 115 120 125
 61 Leu Thr Pro Asp Ala Cys Tyr Pro Asp

all explanations go on (2237 line)
 2237

RAW SEQUENCE LISTING

DATE: 02/26/2002

PATENT APPLICATION: US/09/005,318D

TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt

Output Set: N:\CRF3\02262002\I005318D.raw

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62          130          135
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66 <211> LENGTH: 135
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68 <213> ORGANISM: Mouse
70 <220> FEATURE:
W-OK 71 <221> NAME/KEY: misc-feature
72 <222> LOCATION: Synthetic polypeptide J chain 7<223>
74 <400> SEQUENCE: 2
75      Gln Asp Glu Asn Glu Arg Ile Val Val Asp Asn Lys Cys Lys Cys Ala
76      1          5          10          15
78      Arg Ile Thr Ser Arg Ile Ile Pro Ser Ala Glu Asp Pro Ser Gln Asp
79      20          25          30
81      Ile Val Glu Arg Asn Val Arg Ile Ile Val Pro Leu Asn Ser Arg Glu
82      35          40          45
84      Asn Ile Ser Asp Pro Thr Ser Pro Met Arg Thr Lys Pro Val Tyr His
85      50          55          60
87      Leu Ser Asp Leu Cys Lys Lys Cys Asp Thr Thr Glu Val Glu Leu Glu
88      65          70          75          80
90      Asp Gln Val Val Thr Ala Ser Gln Ser Asn Ile Cys Asp Ser Asp Ala
91      85          90          95
93      Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Asn Arg Val
94      100         105         110
96      Lys Leu Ser Tyr Arg Gly Gln Thr Lys Met Val Glu Thr Ala Leu Thr
97      115         120         125
99      Pro Asp Ser Cys Tyr Pro Asp
100     130         135
109 <210> SEQ ID NO: 3
110 <211> LENGTH: 137
E--> 111 <212> TYPE: Protein
112 <213> ORGANISM: Rabbit
114 <220> FEATURE:
W-OK 115 <221> NAME/KEY: misc-feature
116 <222> LOCATION: Synthetic polypeptide J chain 7<223>
118 <400> SEQUENCE: 3
119     Asp Asp Glu Ala Thr Ile Leu Ala Asp Asn Lys Cys Met Cys Thr Arg
120     1          5          10          15
122     Val Thr Ser Arg Ile Ile Pro Ser Thr Glu Asp Pro Asn Glu Asp Ile
123     20          25          30
125     Val Glu Arg Asn Ile Arg Ile Val Val Pro Leu Asn Asn Arg Glu Asn
126     35          40          45
128     Ile Ser Asp Pro Thr Ser Pro Leu Arg Arg Asn Pro Val Tyr His Leu
129     50          55          60
131     Ser Asp Val Cys Lys Lys Cys Asp Pro Val Glu Val Glu Leu Glu Asp
132     65          70          75          80
134     Gln Val Val Thr Ala Thr Gln Ser Asn Ile Cys Asn Glu Asp Asp Gly
135     85          90          95
137     Val Pro Glu Thr Cys Tyr Met Tyr Asp Arg Asn Lys Cys Tyr Thr Thr
138     100         105         110

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002

TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt

Output Set: N:\CRF3\02262002\I005318D.raw

140 Met Val Pro Leu Arg Tyr His Gly Glu Thr Lys Met Val Gln Ala Ala
 141 115 120 125
 143 Leu Thr Pro Asp Ser Cys Tyr Pro Asp
 144 130 135
 163 <210> SEQ ID NO: 4
 164 <211> LENGTH: 136
 E--> 165 <212> TYPE: Protein
 166 <213> ORGANISM: Bovine
 168 <220> FEATURE:
 WOK 169 <221> NAME/KEY: misc-feature
 170 <222> LOCATION: Synthetic polypeptide J chain
 172 <400> SEQUENCE: 4 <2237>
 173 Glu Asp Glu Ser Thr Val Leu Val Asp Asn Lys Cys Gln Cys Val Arg
 174 1 5 10 15
 176 Ile Thr Ser Arg Ile Ile Arg Asp Pro Asp Asn Pro Ser Glu Asp Ile
 177 20 25 30
 179 Val Glu Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Thr Arg Glu Asn
 180 35 40 45
 182 Ile Ser Asp Pro Thr Ser Pro Leu Arg Thr Glu Pro Lys Tyr Asn Leu
 183 50 55 60
 185 Ala Asn Leu Cys Lys Lys Cys Asp Pro Thr Glu Ile Glu Leu Asp Asn
 186 65 70 75 80
 188 Gln Val Phe Thr Ala Ser Gln Ser Asn Ile Cys Pro Asp Asp Asp Tyr
 189 85 90 95
 191 Ser Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Thr Leu
 192 100 105 110
 194 Val Pro Ile Thr His Arg Gly Val Thr Arg Met Val Lys Ala Thr Leu
 195 115 120 125
 197 Thr Pro Asp Ser Cys Tyr Pro Asp
 198 130 135
 217 <210> SEQ ID NO: 5
 218 <211> LENGTH: 119
 E--> 219 <212> TYPE: Protein
 220 <213> ORGANISM: Bull frog
 222 <220> FEATURE:
 WOK 223 <221> NAME/KEY: misc-feature
 224 <222> LOCATION: Synthetic polypeptide J chain
 226 <400> SEQUENCE: 5 <2237>
 227 Glu Gln Glu Tyr Ile Leu Ala Asn Asn Lys Cys Lys Cys Val Lys Ile
 228 1 5 10 15
 230 Ser Ser Arg Phe Val Pro Ser Thr Glu Arg Pro Gly Glu Glu Ile Leu
 231 20 25 30
 233 Glu Arg Asn Ile Gln Ile Thr Ile Pro Thr Ser Ser Arg Met Xaa Ile
 234 35 40 45
 236 Ser Asp Pro Tyr Ser Pro Leu Arg Thr Gln Pro Val Tyr Asn Leu Trp
 237 50 55 60
 239 Asp Ile Cys Gln Lys Cys Asp Pro Val Gln Leu Glu Ile Gly Gly Ile
 240 65 70 75 80
 242 Pro Val Leu Ala Ser Gln Pro Xaa Xaa Ser Xaa Pro Asp Asp Glu Cys

DATE: 02/26/2002

TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt

Output Set: N:\CRF3\02262002\I005318D.raw

243 85 95
245 Tyr Thr Thr Glu Val Asn Phe Lys Lys Val Pro Leu Thr Pro Asp
246 100 105 110
248 Ser Cys Tyr Glu Tyr Ser Glu
249 115
252 <210> SEQ ID NO: 6
253 <211> LENGTH: 129
E--> 254 <212> TYPE: Protein
255 <213> ORGANISM: Earthworm
257 <220> FEATURE:
W--> 258 <221> NAME/KEY: misc-feature
259 <222> LOCATION: Synthetic polypeptide J chain
261 <400> SEQUENCE: 6
262 Asn Lys Cys Met Cys Thr Arg Val Thr Ala Arg Ile Arg Gly Thr Arg
263 1 5 10 15
265 Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Tyr Ile Arg Ile Asn Val
266 20 25 30
268 Pro Leu Lys Asn Arg Gly Asn Ile Ser Asp Pro Thr Ser Pro Leu Arg
269 35 40 45
272 Asn Gln Pro Val Tyr His Leu Ser Pro Ser Cys Lys Lys Cys Asp Pro
273 50 55 60
275 Tyr Glu Asp Gly Val Val Thr Ala Thr Glu Thr Asn Ile Cys Tyr Pro
276 65 70 75 80
278 Asp Gln Gly Val Pro Gln Ser Cys Arg Asp Tyr Cys Pro Glu Leu Asp
279 85 90 95
281 Arg Asn Lys Cys Tyr Thr Val Leu Val Pro Pro Gly Tyr Thr Gly Glu
282 100 105 110
284 Thr Lys Met Val Gln Asn Ala Leu Thr Pro Asp Ala Cys Tyr Pro Asp
285 115 120 125
536 <210> SEQ ID NO: 16
537 <211> LENGTH: 61/98 shown
538 <212> TYPE: DNA
539 <213> ORGANISM: Artificial Sequence
541 <220> FEATURE:
W--> 542 <221> NAME/KEY: misc-feature
543 <222> LOCATION: Description of Artificial Sequence: Nucleotide sequence of TpS2
W--> 545 <223> OTHER INFORMATION:
545 <400> SEQUENCE: 16
C--> 546 gcgatgacga cgataaggcc caaacggaga cctgtactgt tgcgcctcgt gaacggcaaa 60
548 actgcggtatt cccggaagta acaccctctc agtgcgctaa taaaggctgc tgttttgatg 120
550 acacggtacg gggcggtccg tgggtgcttct accccaatac aattgacggt ccgcctgaag 180
E--> 552 aagagtgcga gccgtaag 198
555 <210> SEQ ID NO: 17
556 <211> LENGTH: 138
E--> 557 <212> TYPE: Protein
558 <213> ORGANISM: Artificial Sequence
560 <220> FEATURE:
W--> 561 <221> NAME/KEY: misc-feature
562 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of "full length" TM cDNA

RAW SEQUENCE LISTING

DATE: 02/26/2002

PATENT APPLICATION: US/09/005,318D

TIME: 13:55:00

Input Set : A:\EpicYTE(0204).txt

Output Set: N:\CRF3\02262002\I005318D.raw

W--> 564 <223> OTHER INFORMATION:

564 <400> SEQUENCE: 17

565 Asp Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys Cys Lys Cys

566 1 5 10 15

568 Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser Ser Glu Asp Pro Asn Glu

569 20 25 30

571 Asp Ile Val Glu Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Asn Arg

572 35 40 45

574 Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu Arg Thr Arg Phe Val Tyr

575 50 55 60

577 His Leu Ser Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu

578 65 70 75 80

580 Asp Asn Gln Ile Val Thr Ala Thr Gln Ser Asn Ile Cys Asp Glu Asp

581 85 90 95

583 Ser Ala Thr Glu Thr Cys Ser Thr Tyr Asp Arg Asn Lys Cys Tyr Thr

584 100 105 110

586 Ala Val Val Pro Leu Val Tyr Gly Gly Glu Thr Lys Met Val Glu Thr

587 115 120 125

589 Ala Leu Thr Pro Asp Ala Cys Tyr Pro Asp

590 130 135

593 <210> SEQ ID NO: 18

594 <211> LENGTH: 71

E--> 595 <212> TYPE: Protein

596 <213> ORGANISM: Artificial Sequence

598 <220> FEATURE:

W--> 599 <221> NAME/KEY: misc-feature

600 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of Core TM

cDNA

W--> 602 <223> OTHER INFORMATION:

602 <400> SEQUENCE: 18

603 Asp Gln Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser

604 1 5 10 15

606 Ser Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Asn Ile Arg Ile Ile

607 20 25 30

609 Val Pro Leu Asn Asn Arg Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu

610 35 40 45

612 Arg Thr Arg Phe Val Tyr His Leu Ser Asp Leu Cys Lys Lys Asp Glu

613 50 55 60

615 Asp Ser Ala Thr Glu Thr Cys

616 65 70

619 <210> SEQ ID NO: 19

620 <211> LENGTH: 49

E--> 621 <212> TYPE: Protein

622 <213> ORGANISM: Artificial Sequence

624 <220> FEATURE:

W--> 625 <221> NAME/KEY: misc-feature

626 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of C2 fragment

W--> 628 <223> OTHER INFORMATION:

628 <400> SEQUENCE: 19

629 Ser Arg Ile Ile Arg Ser Ser Glu Asp Pro Asn Glu Asp Ile Val Glu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002
TIME: 13:55:00

Input Set : A:\EpicYTE(0204).txt
Output Set: N:\CRF3\02262002\I005318D.raw

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630      1          5          10          15
632      Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Asn Arg Glu Asn Ile Ser
633              20          25          30
635      Asp Pro Thr Ser Pro Leu Arg Thr Arg Phe Val Tyr His Leu Ser Asp
636              35          40          45
638      Leu
641 <210> SEQ ID NO: 20
642 <211> LENGTH: 12
E--> 643 <212> TYPE: Protein
644 <213> ORGANISM: Artificial Sequence
646 <220> FEATURE:
W--> 647 <221> NAME/KEY: misc-feature
648 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of D 1.1
fragment
W--> 650 <223> OTHER INFORMATION:
650 <400> SEQUENCE: 20
651      Asp Gln Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg
652      1          5          10
655 <210> SEQ ID NO: 21
656 <211> LENGTH: 14
E--> 657 <212> TYPE: Protein
658 <213> ORGANISM: Artificial Sequence
660 <220> FEATURE:
W--> 661 <221> NAME/KEY: misc-feature
662 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of L3D
fragment
W--> 664 <223> OTHER INFORMATION:
664 <400> SEQUENCE: 21
665 Asp Leu Cys Lys Lys Asp Glu Asp Ser Ala Thr Glu Thr Cys
666 1.          5          10
669 <210> SEQ ID NO: 22
670 <211> LENGTH: 36
E--> 671 <212> TYPE: Protein
672 <213> ORGANISM: Artificial Sequence
674 <220> FEATURE:
W--> 675 <221> NAME/KEY: misc-feature
676 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of T4
fragment
W--> 678 <223> OTHER INFORMATION:
678 <400> SEQUENCE: 22
679      Ser Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Ala Val Val Pro Leu Val
680      1          5          10          15
682      Tyr Gly Gly Glu Thr Lys Met Val Glu Thr Ala Leu Thr Pro Asp Ala
683              20          25          30
685      Cys Tyr Pro Asp
686              35
692 <210> SEQ ID NO: 23
693 <211> LENGTH: 93
E--> 694 <212> TYPE: Protein
695 <213> ORGANISM: Artificial Sequence
697 <220> FEATURE:
W--> 698 <221> NAME/KEY: misc-feature

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RAW SEQUENCE LISTING

DATE: 02/26/2002

PATENT APPLICATION: US/09/005,318D

TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt

Output Set: N:\CRF3\02262002\I005318D.raw

699 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of Core TM cDNA using L3

W--> 701 <223> OTHER INFORMATION: ←

701 <400> SEQUENCE: 23

702 Asp Asn Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser

703 1 5 10 15

705 Ser Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Asn Ile Arg Ile Ile

706 20 25 30

708 Val Pro Leu Asn Asn Arg Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu

709 35 40 45

711 Arg Thr Arg Phe Val Tyr His Leu Ser Asp Leu Cys Lys Lys Cys Asp

712 50 55 60

714 Pro Thr Glu Val Glu Leu Asp Asn Gln Ile Val Thr Ala Thr Gln Ser

715 65 70 75 80

717 Asn Ile Cys Asp Glu Asp Ser Ala Thr Glu Thr Cys Tyr

718 85 90

721 <210> SEQ ID NO: 24

722 <211> LENGTH: 35

E--> 723 <212> TYPE: Protein

724 <213> ORGANISM: Artificial Sequence

726 <220> FEATURE:

W--> 727 <221> NAME/KEY: misc-feature

728 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of L3 fragment

W--> 730 <223> OTHER INFORMATION: ←

730 <400> SEQUENCE: 24

731 Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu Asp Asn Gln

732 1 5 10 15

734 Ile Val Thr Ala Thr Gln Ser Asn Ile Cys Asp Glu Asp Ser Ala Thr

735 20 25 30

737 Leu Trp Thr

738 35

744 <210> SEQ ID NO: 25

745 <211> LENGTH: 22

E--> 746 <212> TYPE: Protein

747 <213> ORGANISM: Artificial Sequence

749 <220> FEATURE:

W--> 750 <221> NAME/KEY: misc-feature

751 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of D1 fragment

W--> 753 <223> OTHER INFORMATION: ←

753 <400> SEQUENCE: 25

754 Asp Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys Cys Lys Cys

755 1 5 10 15

757 Ala Arg Ile Thr Ser Arg

758 20

761 <210> SEQ ID NO: 26

762 <211> LENGTH: 66

E--> 763 <212> TYPE: Protein

764 <213> ORGANISM: Artificial Sequence

766 <220> FEATURE:

W--> 767 <221> NAME/KEY: misc-feature

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/005,318D


DATE: 02/26/2002

TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt

Output Set: N:\CRF3\02262002\I005318D.raw

768 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide of TpS2

W--> 770 <223> OTHER INFORMATION: 

770 <400> SEQUENCE: 26

771 Cys Ser Asp Asp Asp Asp Lys Ala Gln Thr Glu Thr Cys Thr Val Ala

772 1 5 10 15

774 Pro Arg Glu Arg Gln Asn Cys Gly Phe Pro Gly Val Thr Pro Ser Gln

775 20 25 30

777 Cys Ala Asn Lys Gly Cys Cys Phe Asp Asp Thr Val Arg Gly Val Pro

778 35 40 45

780 Trp Cys Phe Tyr Pro Asn Thr Ile Asp Val Pro Pro Glu Glu Glu Cys

781 50 55 60

970 <210> SEQ ID NO: 37

971 <211> LENGTH: 13


E--> 972 <212> TYPE: Protein

973 <213> ORGANISM: Artificial Sequence

975 <220> FEATURE:

W--> 976 <221> NAME/KEY: misc-feature

977 <222> LOCATION: Description of Artificial Sequence: Domain 1, 13 amino peptide with substantial (-sheet character

W--> 979 <223> OTHER INFORMATION: 

979 <400> SEQUENCE: 37

980 Asp Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys

981 1 5 10

984 <210> SEQ ID NO: 38

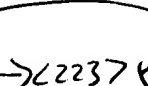
985 <211> LENGTH: 7

E--> 986 <212> TYPE: Protein

987 <213> ORGANISM: Tobacco etch virus

989 <220> FEATURE:

W--> 990 <221> NAME/KEY: misc-feature

991 <222> LOCATION: Peptide recognized by the tobacco etch virus protease Nia 

993 <400> SEQUENCE: 38

994 Glu Asn Leu Tyr Phe Gln Ser

995 1 5

1003 <210> SEQ ID NO: 39

1004 <211> LENGTH: 11


E--> 1005 <212> TYPE: Protein

1006 <213> ORGANISM: Artificial Sequence

1008 <220> FEATURE:

W--> 1009 <221> NAME/KEY: misc-feature

1010 <222> LOCATION: Description of Artificial Sequence: Synthetic polypeptide residues from pro-cathepsin E

W--> 1012 <223> OTHER INFORMATION: 

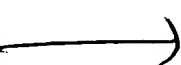
1012 <400> SEQUENCE: 39

1013 Lys Ala His Lys Val Asp Met Val Gln Tyr Thr

1014 1 5 10

1017 <210> SEQ ID NO: 40

1018 <211> LENGTH: 4

E--> 1019 <212> TYPE: Protein 

1020 <213> ORGANISM: Artificial Sequence

1022 <220> FEATURE:

W--> 1023 <221> NAME/KEY: misc-feature

RAW SEQUENCE LISTING




PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002

TIME: 13:55:00

Input Set : A:\Epicyte(0204).txt

Output Set: N:\CRF3\02262002\I005318D.raw

1024 <222> LOCATION: Description of Artificial Sequence: Linker from procathepsin
W--> 1026 <223> OTHER INFORMATION: 
1026 <400> SEQUENCE: 40
1027 Val Gln Tyr Thr
1028 1
1162 <210> SEQ ID NO: 49
1163 <211> LENGTH: 6 31 shown
1164 <212> TYPE: DNA
1165 <213> ORGANISM: Artificial Sequence
1167 <220> FEATURE:
W--> 1168 <221> NAME/KEY: misc-feature
1169 <222> LOCATION: Description of Artificial Sequence: Oligonucleotide 1.2
W--> 1171 <223> OTHER INFORMATION: 
1171 <400> SEQUENCE: 49
E--> 1172 ctagaagtaa tacgagcaca cttgcacttc t 31
1245 <210> SEQ ID NO: 54
1246 <211> LENGTH: 61 47
1247 <212> TYPE: DNA
1248 <213> ORGANISM: Artificial Sequence
1250 <220> FEATURE:
W--> 1251 <221> NAME/KEY: misc-feature
1252 <222> LOCATION: Description of Artificial Sequence: Oligonucleotide 3
W--> 1254 <223> OTHER INFORMATION: 
1254 <400> SEQUENCE: 54
E--> 1255 ctagaatcat ccgtagctca gaggacccaa atgaagatat agtcgaa 47

see p. 10 for more error

global error

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

<210> 7
<211> 421
<212> DNA
<213> Artificial Sequence

Per 1.823 of Sequence Rules, ✓

<220>
<221> CDS
<222> (1)..(414)

Explanation of Artificial Sequence goes on <223> line

<220>
<221> misc-feature
<222> Description of Artificial Sequence: Synthetic polypeptide including target of "full length" TM cDNA

<223> 7
<400> 7

FYI: Sequence 7 is a nucleotide sequence

Also, all nucleotides must be in lower-case letters

Please convert all nucleotides to lower-case letters

see next page

<2207

✓ <2207 never has a response. It is a "header" only.

<2217 <220> CDS

<2227 <221> 1..78

<222> Description of Artificial Sequence: Nucleotide sequence of secretion
signal from pMelBac

<2237

<400> 42

move down to <2237 line

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/005,318D

DATE: 02/26/2002

TIME: 13:55:02

Input Set : A:\EpicYTE(0204).txt

Output Set: N:\CRF3\02262002\I005318D.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:28 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:32 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:67 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:71 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:111 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:115 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:165 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:169 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:219 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:223 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:254 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:258 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:298 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:301 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:302 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=7
L:351 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:354 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:355 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=8
L:383 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:386 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:387 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=9
L:400 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:403 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:404 M:112 C: (48) String data converted to lower case,
L:417 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:420 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:421 M:112 C: (48) String data converted to lower case,
L:423 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:11
M:112 Repeated in SeqNo=11
L:435 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12
L:438 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:439 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=12
L:454 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:457 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:458 M:112 C: (48) String data converted to lower case,
L:460 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13
M:112 Repeated in SeqNo=13
L:464 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13
L:468 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13
L:472 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13
L:476 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13
L:484 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:13

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L:499 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14
 L:502 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:503 M:112 C: (48) String data converted to lower case,
 L:505 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:14
 M:112 Repeated in SeqNo=14
 L:509 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:14
 L:522 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
 L:525 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:526 M:112 C: (48) String data converted to lower case,
 M:112 Repeated in SeqNo=15
 L:542 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
 L:545 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:546 M:112 C: (48) String data converted to lower case,
 M:112 Repeated in SeqNo=16
 L:552 M:252 E: No. of Seq. differs, <211>LENGTH:Input:61 Found:198 SEQ:16
 L:557 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
 L:561 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
 L:564 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:595 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
 L:599 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
 L:602 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:621 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
 L:625 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
 L:628 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:643 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
 L:647 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
 L:650 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:657 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
 L:661 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
 L:664 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:671 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
 L:675 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
 L:678 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:694 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
 L:698 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23
 L:701 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:723 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
 L:727 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24
 L:730 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:746 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
 L:750 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
 L:753 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:763 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
 L:767 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
 L:770 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:790 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
 L:793 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:794 M:112 C: (48) String data converted to lower case,
 M:112 Repeated in SeqNo=27

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L:817 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:820 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:821 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=28
L:836 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:29
L:839 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:840 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=29
L:854 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:857 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:858 M:112 C: (48) String data converted to lower case,
L:867 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:31
L:870 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:871 M:112 C: (48) String data converted to lower case,
L:880 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32
L:883 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:884 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=32
L:906 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:33
L:909 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:910 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=33
L:927 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:34
L:930 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:931 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=34
L:942 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:35
L:945 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:946 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=35
L:957 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:36
L:960 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:961 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=36
L:972 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:976 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:37
L:979 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:986 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:990 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:38
L:1005 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1009 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:39
L:1012 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1019 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1023 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:40
L:1026 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1033 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1037 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:41
L:1061 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:1062 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:42

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L:1065 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1066 M:112 C: (48) String data converted to lower case,
L:1068 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:42
M:112 Repeated in SeqNo=42
L:1072 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:42
L:1079 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1083 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:43
L:1086 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1096 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1100 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:1103 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1110 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1114 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:45
L:1127 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:46
L:1130 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1131 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=46
L:1141 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:47
L:1144 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1145 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=47
L:1156 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:48
L:1159 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1160 M:112 C: (48) String data converted to lower case,
L:1168 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:49
L:1171 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1172 M:112 C: (48) String data converted to lower case,
L:1172 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:31 SEQ:49
L:1182 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:50
L:1185 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1186 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=50
L:1200 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1201 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=51
L:1224 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1225 M:112 C: (48) String data converted to lower case,
L:1239 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1254 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1255 M:252 E: No. of Seq. differs, <211>LENGTH:Input:61 Found:47 SEQ:54
L:1267 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1278 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1291 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1304 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1317 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:1679 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1703 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1720 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:1838 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: